

MKSSS'S Cummins College of Engineering for Women, Pune
Department of Mechanical Engineering

International Journal - SCI / SCOPUS Indexed

Academic Year-2021 - 2022	
1.	S. S. Patil, A. K. Bewoor, and R. B. Patil, "Availability Analysis of a Steam Boiler in Textile Process Industries Using Failure and Repair Data: A Case Study," ASCE-ASME J Risk and Uncert in Engrg Sys Part B Mech Engrg, vol. 7, no. 2, May 2021.
2.	R. B. Patil, M. Arezki Mellal, A. K. Bewoor, and S. Al-Dahidi, "Reliability, Maintainability, and Availability Analysis of a Computerized Numerical Control Machine Tool Using Markov Chains," Acta Polytechnica Hungarica, vol. 18, no. 6, pp. 45–70, 2021.
3.	B. Limkar and G. Chandekar, "Dynamic analysis of Sitar: A comparative study of operational and experimental modal analysis," Journal of Vibration and Control, p. 107754632110421, Jan. 2022.
4	S. Avinash, S. Irulappasamy, C. P. Selvan, M. Sultan, L. S. Hua, and Y. Munde, "Abrasive Machining Characteristics and Prediction Model for Sisal/Polyester Sandwich Composite," Journal of Natural Fibers, pp. 1–17, Sep. 2021.
5	A. Shinde, I. Siva, Y. Munde, V. Deore, M. T. Hameed Sultan, A. U. Md Shah, and F. Mustapha, "Testing of Silicon Rubber/Montmorillonite Nanocomposite for Mechanical and Tribological Performance," Nanomaterials, vol. 11, no. 11, p.1-14, Nov. 2021
6	G. V. More, Y. V. Hanumantha Rao, S. A. Kedar, and S. H. Gawande, "Biodiesel production from DK oils using Taguchi L9 techniques: characterization and thermogravimetric study of combustion characteristics," Journal of Thermal Analysis and Calorimetry, vol. 147, no. 12, pp. 7043–7062, Aug. 2021
7	N. R. Kolhalkar, V. L. Krishnan, A. A. Pandit, R. G. Somkuwar, and J. A. Shaiikh, "Design and performance evaluation of a novel end-effector with integrated gripper cum cutter for harvesting greenhouse produce," International Journal of Advanced Technology and Engineering Exploration, vol. 8, no. 84, Nov. 2021.
8	M. Naidu, A. Bhosale, Y. Munde, and I. Siva, "Tribological performance of hemp fibre reinforced phenolic composites: a brake pad material," International Journal of Surface Science and Engineering, vol. 16, no. 1, p. 52, 2022
	N. R. Kolhalkar, V. L. Krishnan, R. G. Somkuwar, and A. A. Pandit, "Design of IoT-based Mechatronic Module for Real-Time Yield Monitoring During Harvesting of Greenhouse Produce and Vineyards," International Review of Mechanical Engineering (IREME), vol. 16, no. 1, p. 48, Jan. 2022
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1	H. P. Jagtap, A. K. Bewoor, R. Kumar, M. H. Ahmadi, and L. Chen, "Performance analysis and availability optimization to improve maintenance schedule for the turbo-generator subsystem of a thermal power plant using particle swarm optimization," <i>Reliability Engineering & System Safety</i> , vol. 204, p. 107130, Dec. 2020.
2	H. Pingulkar, A. Mache, Y. Munde, and I. Siva, "Synergy of Interlaminar Glass Fiber Hybridization on Mechanical and Dynamic Characteristics of Jute and Flax Fabric Reinforced Epoxy Composites," <i>Journal of Natural Fibers</i> , pp. 1–16, Dec. 2020.
3	A. Sharma, Y. Munde, and V. Kushvaha, "Representative volume element based micromechanical modelling of rod shaped glass filled epoxy composites," <i>SN Applied Sciences</i> , vol. 3, no. 2, Jan. 2021.
4	Mithul Naidu, Dipak Bacche, Ajit Bhosale, "Influence of Temperature on the Plant Fiber Reinforced Brake Pad Materials: A Review," <i>Solid State Technology</i> , vol.63, no.6, pp.2388-2404, Oct 2020
5	Mithul Naidu, Dipak Bacche, Hrishikesh Avhad, Siddhesh Akolkar, Shubham Dhage, Ajit Bhosale, "An Insight on the Influence of Fiber Content on Plant Fiber Reinforced Brake Pads," <i>International Journal of Future Generation Communication and Networking</i> , vol.13 no.2, pp 1070-1082, July 2020
6	S A Kedar G.Murali A.K.Bewoor, "Effective hybrid solar groundwater desalination in rural areas," <i>International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies</i> , Vol.12 no.3, March 2021
	S. Kedar, G. Murali, and A. K. Bewoor, "Mathematical Modelling and Analysis of Hybrid Solar Desalination System Using Evacuated Tube Collector (ETC) and Compound Parabolic Concentrator (CPC)," <i>Mathematical Modelling of Engineering Problems</i> , vol. 8, no. 1, pp. 45–51, Feb. 2021.
	S. A. Kedar, A. K. Bewoor, G. Murali, R. Kumar, M. Sadeghzadeh, and A. Issakhov, "Effect of Reflecting Material on CPC to Improve the Performance of Hybrid Groundwater Solar Desalination System," <i>International Journal of Photoenergy</i> , vol. 2021, pp. 1–13, Apr. 2021.
	B. S. Limkar and G. S. Chandekar, "Structural dynamic analysis of a musical instrument: tibetan singing bowl," <i>Journal of Mathematics and Music</i> , pp. 1–16, Jan. 2021
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1.	H. Jagtap, A. Bewoor, R. Kumar, M. H. Ahmadi, and G. Lorenzini, "Markov-based performance evaluation and availability optimization of the boiler–furnace system in coal-fired thermal power plant using PSO," <i>Energy Reports</i> , vol. 6, pp. 1124–1134, Nov. 2020.
2	H. P. Jagtap, A. K. Bewoor, and R. Kumar, "Failure analysis of induced draft fan used in a thermal power plant using coordinated condition monitoring approach: A case study," <i>Engineering Failure Analysis</i> , vol. 111, p. 104442, Apr. 2020.

3	S. S. Patil and A. K. Bewoor, "Reliability analysis of a steam boiler system by expert judgment method and best-fit failure model method: a new approach," <i>International Journal of Quality & Reliability Management</i> , vol. 38, no. 1, pp. 389–409, May 2020.
4	H. P. Jagtap, A. Bewoor, and R. Kumar, "Thermal Power Plant Condenser Fault Diagnosis Using Coordinated Condition Monitoring Approach," <i>Instrumentation Measure Métrologie</i> , vol. 18, no. 3, pp. 223–235, Aug. 2019.
5	Abhishek D Patange, AK Bewoor, SP Deshmukh, SS Mulik, SS Pardeshi, R Jegadeeshwaran, "Improving Program Outcome Attainments using Project Based Learning approach for: UG Course-Mechatronics," <i>Journal of Engineering Education Transformations Vol.33, No.1</i> , pp. 1-8, Nov. 2019
6	P. Chaware and C. M. Sewatkar, "Flow Transitions for Flow Through a Pipe With a Twisted Tape Insert," <i>Journal of Fluids Engineering</i> , vol. 141, no. 11, May 2019.
7	D. J. J. R, V. Arumugaprabu, and Y. S. Munde, "Constitutive models to predict the mechanical performance of sansevieria cylindrica reinforced vinyl ester composite," <i>Materials Research Express</i> , vol. 6, no. 9, p. 095310, Jul. 2019.
8	S. A. Kedar, K. A. Raj, and A. K. Bewoor, "Performance analysis of hybrid solar desalination system using ETC and CPC," <i>SN Applied Sciences</i> , vol. 1, no. 9, Aug. 2019
9	N. R. Kolhalkar* and D. V. L. Krishnan, "Mechatronics System Design for Weed Management and Soil Condition Monitoring Within the Rows of Vineyards," <i>International Journal of Innovative Technology and Exploring Engineering</i> , vol. 4, no. 9, pp. 3080–3094, Feb. 2020.
10	H. M. Shinde and A. K. Bewoor, "Evaluating petrol engine oil deterioration through oxidation and nitration parameters by low-cost IR sensor," <i>Applied Petrochemical Research</i> , vol. 10, no. 2, pp. 83–94, Jun. 2020.
11	Harish M. Shinde, Anand K. Bewoor, "Viscosity Assessment for Quantifying Engine Oil Deterioration Using New Cost-effective and Handy Fluid Property Sensor," <i>International Journal of Advanced Science and Technology</i> , Vol. 29, No.7, 8649-8659, June 2020
12	G. Kalusuraman, I. Siva, Y. Munde, C. P. Selvan, S. A. Kumar, and S. C. Amico, "Dynamic-mechanical properties as a function of luffa fibre content and adhesion in a polyester composite," <i>Polymer Testing</i> , vol. 87, p. 106538, Jul. 2020
13	S. G. Dambhare, S. S. Kore, F. Z. Pathan, and M. Vahadane, "Diesel engine performance and emission characteristic enhancement using TOPSIS," <i>International Journal of Advanced Technology and Engineering Exploration</i> , vol. 6, no. 54, pp. 126–132, May 2019
Academic Year-2018 - 2019	
1.	P. Chaware and C. M. Sewatkar, "Effects of tangential and radial velocity on fluid flow and heat transfer for flow through a pipe with twisted tape insert—laminar flow," <i>Sādhanā</i> , vol. 43, no. 9, Jul. 2018.

2.	M. V. Kulkarni and R. B. Ingle, "Validation of set up for experimental analysis of reactive muffler for the determination of transmission loss: Part 1," Noise & Vibration Worldwide, vol. 49, no. 6, pp. 237–240, Jun. 2018.
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4	Sham Kulkarni, AK Bewoor, "Analysis of Distributed Defect On Outer Ring Of Ball Bearing Under Radial Load: A Theoretical And Experimental Approach," Journal of Engineering Science and Technology, vol.13 no.11, pp. 3764-3780, Nov. 2018
5	Y. S. Munde, R. B. Ingle, and I. Siva, "Vibration damping and acoustic characteristics of sisal fibre–reinforced polypropylene composite," Noise & Vibration Worldwide, vol. 50, no. 1, pp. 13–21, Nov. 2018.
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8	S. Kedar, A. R. Kumaravel, and A. K. Bewoor, "Experimental Investigation of Solar Desalination System Using Evacuated Tube Collector," International Journal of Heat and Technology, vol. 37, no. 2, pp. 527–532, Jun. 2019
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1.	P. Chaware and C. Sewatkar, "Effects of tangential and radial velocity on the heat transfer for flow through pipe with twisted tape insert-turbulent flow," International Journal of Heat and Technology, vol. 35, no. 4, pp. 811–820, Dec. 2017
2	S. Kulkarni, A. Bewoor, and R. Ingle, "Vibration signature analysis of distributed defects in ball bearing using wavelet decomposition technique," Noise & Vibration Worldwide, vol. 48, no. 1–2, pp. 7–18, Jan. 2017
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5	K. B. Gavali, A K Bewoor, Debabrata Barik, "Job Shop Scheduling with the Aid of Hybrid Social Spider Optimization and Gray Wolf Optimization with Industrial Scheduling Case Study," International Journal of Mechanical Engineering and Technology, vol.8 no.10, pp-274-284, Oct-2017

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3	D. S. Watvisave, B. P. Puranik, and U. V. Bhandarkar, "Modeling wall effects in a micro-scale shock tube using hybrid MD–DSMC algorithm," Shock Waves, vol. 26, no. 4, pp. 477–489, Jul. 2015
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2	Dr. A. K. Bewoor, "Methodology for identification of critical equipments in thermal power plant using criticality analysis," Discovery Engineering, vol.4 no.12, pp. 291-298, May-2016
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3	S. A. Kedar, G. Deshpande, A. Bhusawalkar, M. Yawalkar, and K. Sarmah, "Lateral Transfer Device for Hospital Stretcher," <i>Applied Mechanics and Materials</i> , vol. 446–447, pp. 1330–1333, Nov. 2013
Academic Year-2012 - 2013	
1	S. Pramanik, R. B. Ingle, and A. A. Latey, "Comparative Study of Steering Mechanisms for Large Wheelbase Vehicles," <i>International Journal of Vehicle Structures and Systems</i> , vol. 4, no. 2, May 2012
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Academic Year-2010 - 2011	
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1.	Beena S. Limkar, Gautam S. Chandekar, "Extraction of Modal Parameters Using Experimental & Operational Modal Analysis for Overhanging Machine Component," International Journal of Scientific & Engineering Research, vol.9 no.6, June-2018
Academic Year-2016 - 2017	
1	Dr. A. K. Bewoor, "Employability Skill Matrix for Engineering Graduates of Tier-II Institutes," Journal of Engineering Education Transformations, vol.30. no.3, Jan-2017
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Academic Year-2015 - 2016	
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2	Avinash S Shinde, "Fatigue analysis of crank shaft section under bending with consideration of induction hardening," International Journal of Advances in Management, Technology & Engineering Sciences, vol.1 no.9, pp. 56-60, June-2012
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1	A. Shinde, I. Siva, and Y. Munde, "Micromechanical simulation of silicon rubber reinforced with MMT nanoclay," <i>Materials Today: Proceedings</i> , vol. 62, pp. 957–961, 2022
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3	Patil, N.R., Waghole, D.R. & Bewoor, A.K., 2022. Effects of MoS ₂ -Based Biodegradable Cutting Fluids in MQL During Turning of Stainless Steel. <i>Innovations in Mechanical Engineering</i> , pp.319–328
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5	H. P. Jagtap, A. K. Bewoor, R. B. Patil, A. C. Dawale, D. P. Kamble, and S. B. Sawant, "An integrated approach for interoperability of standards, condition monitoring methods, and research models used in the power generation sector," <i>IOP Conference Series: Materials Science and Engineering</i> , vol. 1166, no. 1, p. 012010, Jul. 2021
6	B. Limkar and G. Chandekar, "Dynamic Analysis of Psychoacoustic Parameters to Evaluate Sound Quality of an Indian String Instrument Sitar," <i>Technology Innovation in Mechanical Engineering</i> , pp. 83–90, 2022
7	Anand Bewoor, Sagar Sapkal, Pratiksha Dhaygude, "Mapping Lean Six Sigma with 8D Problem Solving Methodology to Improve Productivity and Safety: A Case Study," 4th Intl. Conf. on Innovations in Mechanical Engineering (ICIME -2021) GNK, Hyderabad, Feb 2021
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3	T. Premkumar, I. Siva, Y. Munde, S. Rajesh, and S. C. Amico, "Basalt fiber hybridization effects on the thermal degradation properties of curauá fiber composites," <i>Materials Today: Proceedings</i> , vol. 28, pp. 258–260, 2020
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2.	L. V. Awadhani and A. Bewoor, "Behavior of single lap composite bolted joint under traction loading: Experimental investigation," 2018
3.	hinde, H. & Bewoor, A., "Capacitive sensor for engine oil deterioration measurement," <i>International Conference on Design, Materials & Manufacture (IcDeM-2018)</i> , NITK Surathkal. Jan-2018
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2	Nivedita Daimiwal, Revati Shriram, Harish Shinde, Radhika Kulkarni, Apeksha Galewad, "Oil Quality Analysis Using Image Processing," XVIII Control Instrumentation Systems Conference (CISCON 2021), Nov. 2021
3	Anand K. Bewoor, Harish M. Shinde, Ajit A. Bhosale, Pravin P Patil, S. Kaliappan and S. Socrates, "Ergonomic analysis and improvement for ease of work of post engine testing activities by using RULA and REBA techniques", International Conference on Materials for Emerging Technologies (ICMET-21), 18-19 February, 2022
4	Maneetkumar Dhanvijay, Vinay Kulkarni, Nitin Patil, Anand Bewoor, "Development of PLC Based System for Lift Gate Slam Platform", International Conference on Materials for Emerging Technologies (ICMET-21), 18-19 February 2022
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2	Beena S. Limkar, Gautam S. Chandekar, "Study of Sitar Bridge Transmissibility in the Perspective of Sitar Quality," International Conference on Mathematical, Physics, and Dynamics (ACADEMICS CONFERENCE NETWORK), Dec 2020
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